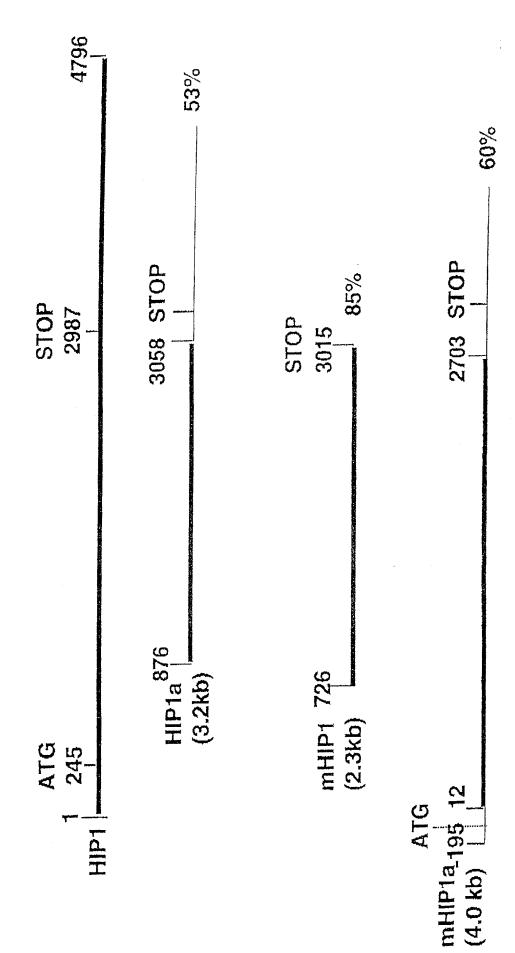
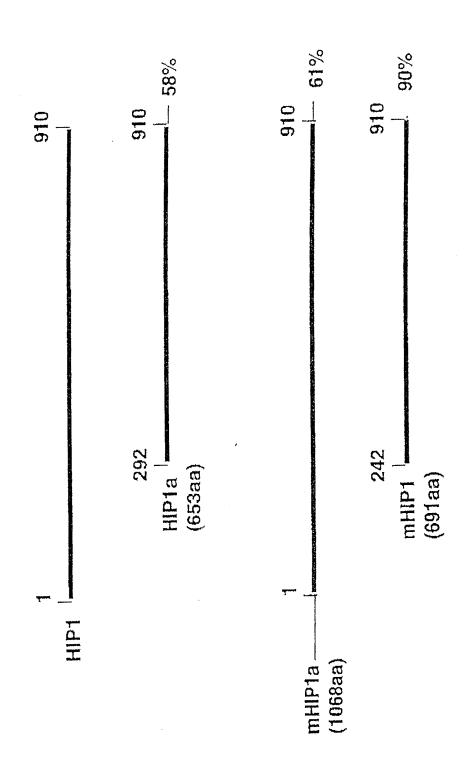


T. 20.









Fy4

>Usurpin A

SAEVIHOVEEALDTDEKKMLLFLCRDVAIDVVPPNVROLLDILRERGKLSVCDLAELLYRVHRFDLLKRILK

>Usurpin B

YRVLMAHIGEDLDKSDVSSLIFLMKDYMGRGKISKHKSFLDLVVELHKLNLVAPDQLDLLEKCLKNIHRIDLKTKIQK

>Casp-8 A

FSRNLYDIGELQDSEDLASLKELSLDYIPQRKOEPIKDALMIFQRLOEKRMLEESNLSFLKELLFRINRLDLLITYLN

>Casp-8 B

YRVMLYQISEEVSREELRSFKFLLQHEISKCKLDDDMNLLDIFIEMEKRVILGEGKLDILKRVCAQINKSLLKIND

>Casp-10 A

FRHKLLTIDSNLGVQDVENLKFLCIGLVPNKKLEKSSSASDVFENLLAHDLLSEEDPFFLAELLYIIRQKKLLQHLNC

>Casp-10 B

FRNLLYELSEGIDSENLKDMIFLLKDSLPKTEMTSLSFLAFLEKQGKIDEDNLTCLEDLCKTVVPKLLRNIEK

>FADD

FLVLLHSVSSSLSSSELTELKFLCLGRVGKRKLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASLRRHDLLRRVDD

>MC159 A

SLPFLRHLLEELDSHEDSLLLFLGHDAAPGCTTVTQALCSLSQQRKLTLAALVEMLYVLQRMDLLKSRFG

>MC159 B

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>E8

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>KS orfk13A

TYEVLCEVARKLGTDDREVVLFLLNVFLPQPTLAQLIGALRALKEEGRLTFPLLAECLPRAGRRDLLRDLLH

>KS orfkl3B

YQLTVLHVDGELCARDIRSLIFLSKDTIGSRSTPQTFLHNVYCMENLDLLGPTDVDALMSMLRSLSRVDLQRQVQT

>HIP1

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>HIPla

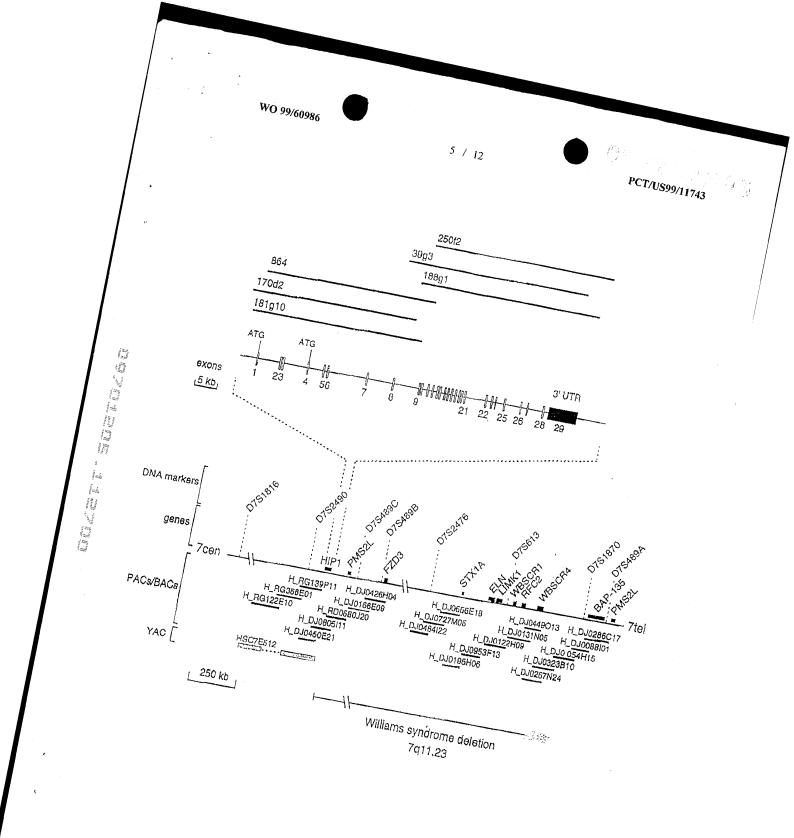
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>mHIPla

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>mHIP1

SELEAELAEQOHLGRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKYSELVQNHADLLRKN AE



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SORLTHLILLSLPLL HDHRAQAREVFV	RY N S DSLRYBNELSDIASRN ETYRYVNRPTQLSQP	M L V. R S. EMFDYLECELNLFQT VFNSLDHSRSVSVTA DYLDQFDALUVLQDR VYERDRUSLRHNSLIP	il lp pnfl s Ipqlpenpphflras IptlpsHaphflqqs	L K E ERLYRBISGLKAQUB VALSRAVBDEKFAKE	B R K K Y BQ-RYSKLKBKTSE- BE-RFNKMKGVTEK-	. QVLQGSLETSAQSEA . EGDAGAVDZMRTQLV	g NOLSEPLIS SILYPP	CK A CKQYGRETLAYIASI 2 CKKVIAAAKVAF	g lkyne il 9 vklevnerilgects 8 irlevnesilancoa
	. HKLLRDGHP V VFHKLLRDGHPNVLK LVHKLLRDGHRKVPB		SSNLQTFK L. FYRSSNLQTFKRLIQ YEESSNLQTFKYLVS	D I NSQNGVNKDEKDELI SSQPDPREEQI	A , E ERKA A K AQRSLSBIBKKAQAN D ARVKBABIKATAA	B V LBSLKQBLATSGREL BAGRALTKA	. E Q A P L VGSRKARBQVIQDAL NQLEEPPLIS I TQMFDHCEDALQNAT SITYPP	A T CLRAPPEPADSLTBA A AYTASIBSYEGVNDQ	IB RIBBMLSKSRAGDT BIBAIORRARESSD
GRLQGTDHP#GWGRL AGGGERGGL#EGLSH	L VL WEPCH LPLSSNAVLCWKRCH IQLBKHPVLCWKFCH	K D. N F T EAGESDVANFPQLTV TL-EGDLDXAFEATI	ER RF ? K ERDRFMRQFTKLKUL HRSRFRTI?ERTKKF	. DDIFGSSPSSDPFNF . LNLAEABPQQASP	B R T RELDELRRORBDIEK K NELALRDASRIQIDD	QR R ISDZGQRKTQEQLEV R KVERAQR	AK E ESMCQLAKDQRKMLL R LAELEVAKES-GVGI	HL S X L LAHLITSDAIAHGAIT F AGHLLSTILSAHASA	em ai a D <u>kemartsaaietata</u> 2. Qemrriodaireavo
QPAGSWERCPPLPPA	E KK FH V HHEKGAQTFHSVVNR HÆKSSGIFHHTVGR	P PG L D QL PRFPGNLQMSDRQLD PVVPGKLDLNDSQLK	ES . D L G ESCLPADTLQG ESQVPPDALEG	S B B D A B ASSPOSEPVLEKOOL MOMDASÇONLFDNKE GSE-DGTSLMGHUGEL	L OHLRQQAADDCBFLR A KREADZNRBEAQRLK	D J DLERBKKBLEDSLER ? DKDEBITALNR	Q L RKELQDTQLKLASTE QLVQSSAEBTNKIR	I B L A SSCIEQLBKSHSQYL ACPEDISGLIHSITL LYNILSNBR-LDBPL ATKONVF	LP DI LP RCIDIKQEELGDIND LP LQIDIDKOVGNELE
GTANARQMCPLPQDA	K KHART I.GT VAVKEKHARTCILGT VPLKPKHARTIIVGT	Y KLL .H K YLKLLRTKMBYHTKN YCKLLHDRVTFHNRY	S YDY VK .BKL CSHLYDYTVKLLPKL TSKFYDYLVKMIFKL		Q Q LKGHVSELEADLAEQ Q YENRLLAGMQGEFDHA	KQ. 1 ARVIKQVSIAARQAQV 1 GDIQKQLEASZKSK?	H B LVSGAAHRBEBLSAL BLRESHAN-		nclskikaig <u>ee</u> Rodiqtenslæis
HLCQGSBWRRDQQL	Q KAI E VFQTVSINKAINTQE RAQLEAVQKAITYME	w el grg wgels-egyglcsi wkelntsgygpcies	GQC PLI ILD AGGCRLAPLIQVILD QGQCRLSPLILAILD	L P B ALSEHISPVTVIPAE DESYRTPHATHSE	b nmktesqrvvi rliqsarrrie	H L LVQNBADLLRKN 3PRSBEVLALTKL	K BL D NYAABPABLEKBYDS 3 KADIEVBELKRIID-	HL CAGSADHLLSTVTSI 3HLAQSAMMI	L D REEGSLENADSTANR 3 SDUSALSRADKHKLL
1 hip1 2 zk370.3	1 hipi 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hipl 2 zk370.3	1 hip1 2 zk370.3	1 big1 2 zk370.3	1 hip1 2 zk370.3

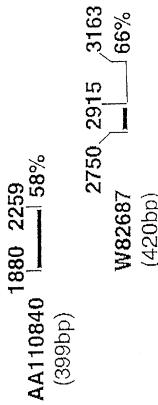
## FIG CONT.)

958	3036
AD VV CRGK F R L V BIAASTA ADLVVQGRGKF KELMYCSHELAASTA ADGVVTGRGKF RFLLIVAAQSIAASTA	D?S L K EK SQV L BLE L ER KL DPSSMTL TQIKRQEMDSQVRVZ BLENBLQKERQKLGE DPSYLSL HAAKKEEMESQVROAL BLEQSINQERAKLAA
SP KPY N HTBGLIS A KAVG A V AD VV GRGK SSPK BPKARNSRHTBGLIS ASKAVGHGATVHVDA ADLVVQGRGK- 55PA BFKRRHÇHTBGLLS AAKAVGVAARVLVES ADGVVTGKGK-	TAGVVASTISGKSQI BETDNADPSSMIL TAGVVAAVKAGÇITL ADBGSLDPSYLSL
IN .I LAS L Q ZIV SP KFT N MIZGLIS A KAVG A V AD VV GRGK F N L V BIAASTA lipi imgaiqvilyaskol Qrrivesgrgtaspk Rfinkrshmisglis askanghrahyda adlvvyggrgkF kelmycshflaasta 2 zkji0.3 imsvinqivilasrel Qirivaagkolgeba Kfinkrhqmisglis aakavgvaarvives adgvvigkgkF khlivaagslaasta	QL . S VKADKUSS L L A VAQ TA VVA. G . D?S L K KK SQV L BLR L KR KL 1 hipl QLVAASKVKADKUSP NLAQLQQASRGVAQA TAGVVASTISGKSQI BETDMMDF8SMYL TQIKRQEMDSQVRVZ BLRNKLQKERQKLGR 2 zk:170.3 QLEVSSRVKADKOSS KLDALSVAAKAVAQN TAQVVAAVKOQTITL NDBGSLDFSYLSL HAAKKEEKESQV704L BLEQSINQBRAKLAA

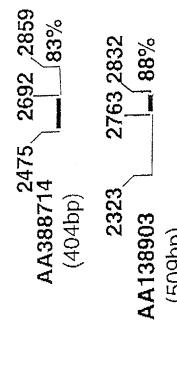
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Mouse ESTs F197





mHIP1a



mHIP1

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Company of the compan

(203bp)

(420bp)

mthlp1.pzm:Graph-2 - Tue Apr 28 11:30:41 1993

Hip-I increases the susceptibility to Cell Stress:

## HIP1 TOXICITY

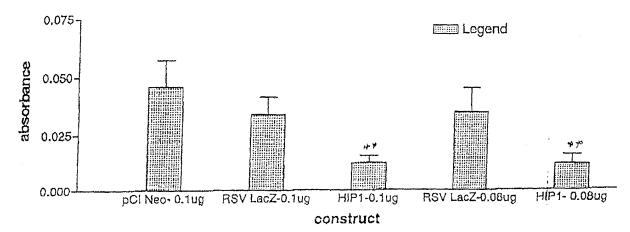
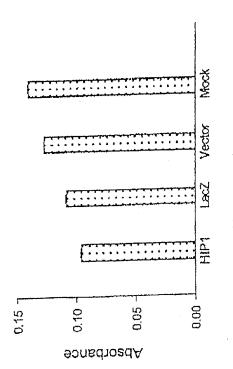


Fig 8

ty- 1 is taxic in the presence of hu

HIP1 transfected into HD1955-15 stable cell line 36 hr post-tansfection



Transfected constructs

Fy 91

Hip-1 is toxic in the presence of h

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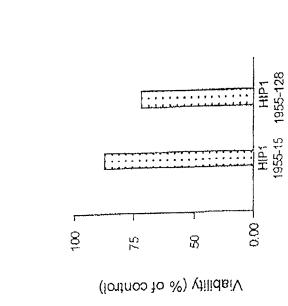
HIP1 transfected into HD1955-128 stable cell line 36 hr post-tansfection

F. 99

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Polyglutamine-dependence of HIP-1 toxicity



Transfected constructs/cell lines

Fy 9C